

Claims:

1. A multilayer system for transparent substrates, particularly for glass glazing, comprising at least one functional layer and at least one layer of mixed oxides made of ZnO and TiO<sub>2</sub> and at least one additional oxide, produced by reactive sputtering from a metal target alloy, characterized in that this additional oxide is Al<sub>2</sub>O<sub>3</sub>, Ga<sub>2</sub>O<sub>3</sub> and/or Sb<sub>2</sub>O<sub>3</sub>.
- 5 2. The multilayer system as claimed in claim 1, characterized in that ZnO and TiO<sub>2</sub> are present in the layer of mixed oxides in a molar ratio of the order of 1:1 to 2:1.
- 10 3. The multilayer system as claimed in claim 2, characterized in that ZnO and TiO<sub>2</sub> are present in the layer of mixed oxides essentially in molar ratios of 1:1 or 2:1.
- 15 4. The multilayer system as claimed in any one of claims 1 to 3, characterized in that the proportion of oxides Al<sub>2</sub>O<sub>3</sub>, Ga<sub>2</sub>O<sub>3</sub>, and/or Sb<sub>2</sub>O<sub>3</sub> in the layer of mixed oxides is from 0.5 to 8% by weight.
- 20 5. The multilayer system as claimed in any one of the preceding claims 1 to 4, characterized in that the thickness of the layer of mixed oxides is from 2 to 25 20 nm.
6. The multilayer system as claimed in any one of claims 1 to 5, characterized in that the layer of mixed oxides is the lower and/or upper antireflection layer of a low-emission [low-E] multilayer system exhibiting 30 one or more functional layers made of silver.
7. The multilayer system as claimed in any one of claims 1 to 5, characterized in that the layer of mixed oxides is a partial layer of the upper and/or lower antireflection layer of a low-E multilayer system exhibiting 35 one or more functional layers made of silver.
8. The multilayer system as claimed in any one of claims 1 to 7, characterized by a layers structure as follows: Substrate - SnO<sub>2</sub> - ZnO - Ag - CrNi - SnO<sub>2</sub> -

$\text{Zn}_2\text{TiO}_4:\text{Al}$ .

9. The multilayer system as claimed in any one of claims 1 to 7, characterized in that the layer of mixed oxides is produced from a metal target alloy containing 5 from 90 to 40% by weight of Zn, from 10 to 60% by weight of Ti and from 0.5 to 8% by weight of one or more of the metals Al, Ga and Sb.

10. The multilayer system as claimed in claim 9, characterized in that the target alloy for the 10 production of the layer of mixed oxides contains 71% by weight of Zn, 27% by weight of Ti and 2% by weight of Al.

11. The multilayer system as claimed in claim 9, characterized in that the target alloy for producing 15 the layer of mixed oxides contains 56% by weight of Zn, 42% by weight of Ti and 2% by weight of Al.

12. A transparent substrate, particularly glazing, coated with a multilayer system as claimed in any one of the preceding claims.